



### **Gateway Computers - Gateway – 25U Rack Cabinet Black**

**Our Price: \$999.00**

#### **Description:**

For users considering a rack environment, the Gateway 25U Rack Cabinet offers flexibility, stability, and security at an affordable price. It is a quality solution, designed for remote branch locations that have space limitations for rack-mounted equipment.

The Gateway 25U Rack Cabinet features a sleek, black design and strong adjustable framework. Its back rails can be repositioned to mount equipment of various depths, and its cross members can be relocated for side-mounted equipment and cable management. The front and rear doors are designed with fully vented mesh. The Gateway 25U Rack Cabinet provides the front-to-back airflow for better cooling and is completely compatible with Gateway and other rack mount servers.

#### **Features:**

- Adjustable mounting depth
- Guaranteed compatibility
- Lockable doors and side panels
- Multi-vendor equipment compatibility
- Numbered U positions
- Optimized depth
- Optimized width
- Powder coat paint finish
- Protective grounding provisions
- Quick release doors
- Quick release side panels
- Rear cable management channels
- Reversible doors
- Rolls through a 7 foot doorway
- Roof and base cable access
- Ships fully assembled
- Split rear doors
- UBC Zone 4 stabilization provisions

**System Requirements:**

19in rack mount equipment can be placed in this enclosure  
Devices that are not rack-mountable, a shelf will be needed

**Includes:**

25U rack cabinet, black  
Casters  
Doors  
Key(s)  
Leveling feet  
Roof  
Side panels  
User Manual

**Specifications:****Depth**

42.20 inches (107.19 cm)

**Height**

51.70 inches (131.32 cm)

**Width**

23.50 inches (59.69 cm)

**Why we chose this...**

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We chose this type of storage because it looks professional and saves space. This specific rack cabinet was the best value and had adjustable mounting depth. Also, it has computer grade ventilation and can be easily relocated. Since the rack will be placed in an area that's easily accessible we chose a model that has lockable doors.



**APC Air Removal Unit 115V 60HZ Black**

**Mfr. Part #:** ACF101BLK

**Item #:** 6613159

**Our Price:** **\$1,625.00**

This Removal Unit removes heat generated by the exhaust of IT equipment contained in a NetShelter VX or NetShelter EP EIA 19-inch enclosure. The Rack Air Removal Unit, installed at the rear of the enclosure, removes warm air from the equipment in the enclosure. The three fans provide increased airflow needed to cool densely packed equipment and allow air to bypass obstacles in the rear of the enclosure such as power and data cables.

**Specifications:**

**Dimensions (W x D x H)**

23 in x 7 in x 72.5 in

**Localization**

Canada, United States

**Manufacturer Warranty**

2 years warranty

**Product Description**

APC Rack Air Removal Unit rack fan kit (115 V)

**Product Type**

Rack fan kit (115 V)

**Weight**

145.3 lbs

### **Why we chose this...**

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The 5 servers that we have selected will produce a great deal of heat. To prevent the servers from overheating we needed an air removal unit that would cool densely packed equipment. The unit we chose accomplishes this task and allows the airflow to bypass cables and power outlets in the process.



## Genica 1000ft CAT5e Uncrimped Ethernet Cable Roll

Was: \$57.47

Sale: **\$39.87**

**Key Selling Points:** Wire your home or office with Genica Riser (CMR) rated UL approved Category 5e cable. This cable will work great on any 10BaseT, 100BaseTX, or Gigabit network and provides you with the flexibility to choose your own wire lengths. Make your network environment easy, affordable, and neat!

### Specifications:

**Model:** Genica 1000 Foot Cat5e Cable Roll (Retail)

**Item No:** C0287

#### General Features:

- 1000 feet of uncapped, unshielded twisted pair Ethernet cable
- Category 5e Rated
- Compatible with Gigabit, 10BaseT, and 100BaseTX Standards
- Four (4) Twisted Pairs
- 24AWG Solid Copper Wire
- Rated CM (General Purpose)
- UL & CUL Approved
- White outer insulation

#### Package Includes:

- 1000 ft. of Category 5e Ethernet Cable (uncapped)

**Compatibility:** For use with standard RJ45 connectors/punch-down blocks

**Condition:** New (Retail)

**Warranty:** 1 Year

### **Why we chose this...**

We have selected the Cat 5 cable because it is the standard cable used in networking. The difference between Cat 5 and Cat 6 is minimal, but Cat 6 cable costs more money. We did not select the fiber optic cable because the labs that we are creating are in close proximity to the servers. There was no need to spend extra money on the fiber optic because the information wasn't traveling long distances. We chose the Genica cable because it was the least expensive on the market. We decided to buy the cable in bulk due to the fact that it is less expensive to purchase a roll of cable and attach the necessary accessories than it is to purchase ready-to-install cable by the foot. Since we will be installing the cabling and accessories, there was no need to incur the additional expense of pre-assembled cable.



## **RJ-45 Cat5 Connectors, 100-pack**

**Price: \$8.94**

### **Connectivity:**

Network Cable Type  
Patch Cable

Connector  
RJ-45 (M)

### **Standards:**

Compliant Standards  
Category 5 (EIA/TIA-568)

### **Contents:**

100-pack: connectors

### **Why we chose this...**

The RJ-45 connectors we have found come in a pack of 100. For only \$8.94, this package is the least expensive for the amount of connectors. The RJ-45 connector is the standard for Cat 5 cable. We will need to place a connector at the end of each section of Cat5e cable where the cable attaches to the computer station, printers, and to the keystone jacks that will be in the wall mount. The RJ-45 connectors will allow the printers and computers to be included in the network.

## WatchGuard Firebox X1000



**Part#:** 79411

**Mfg Part#:** WG41000

**Price:** **\$1,876.65**

### **Description:**

An integrated, expandable security appliance with centralized management, Firebox X1000 is ideal for mid-sized businesses who want firewall/VPN, application layer filtering, remote connectivity, and intrusion prevention capabilities in a single appliance. Upgrade with new security features and services like Web content filtering and spam blocking as your needs grow. It's the best integrated security for businesses with 200-500 employees.

### **Specifications:**

#### *Performance*

Firewall Throughput (WFS/Fireware™ Pro)	225/240 Mbps
VPN Throughput (WFS/Fireware™ Pro)	75/100 Mbps
Concurrent Sessions	200,000
Nodes supported (LAN IPs)	Unlimited

#### *Interfaces*

10/100 - Standard (WFS/Fireware™ Pro)	3/6
10/100 - Maximum	6
Serial Port	√
Port independence	Optional with Fireware™ Pro
Security zones (WFS/Fireware™ Pro)	3/6

#### *VPN*

Branch Office VPN Tunnels	500
Mobile User VPN tunnels	1,000
Mobile User VPN Client Licenses	50
Encryption (DES, 3DES)	√
Encryption (AES - 128,192,256 bit)	Optional with Fireware™ Pro



IPSec	√
SHA-1, MD5	√
IKE - X.509	3rd party
IKE - Pre-shared key	√
PPTP Server	√
PPTP Passthrough	√
Dead Peer Detection	√
Hardware-based encryption	√

*User Authentication*

Maximum users (internal database)	1,000
RADIUS	√
LDAP	Optional with Fireware™ Pro
Windows NT/2000	√
Windows Active Directory	Optional with Fireware™ Pro
XAUTH	√
RSA SecurID	√
Web-based	√

*High Availability*

HA Active/Passive	Optional
Configuration synchronization	√
Session synchronization	√
VPN tunnel synchronization	√

*WAN Failover*

WAN failover	Optional with Fireware™ Pro
WAN failover ports	0, 4 with Fireware™ Pro
WAN failover modes (Active/Passive)	Optional with Fireware™ Pro
Load sharing (Round Robin)	Optional with Fireware™ Pro

*Traffic Management and QoS*

Policy-based traffic management	Optional with Fireware™ Pro
Maximum bandwidth	Optional with Fireware™ Pro
Traffic prioritization	Optional with Fireware™ Pro
Maximum connections per second	Optional with Fireware™ Pro

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*Routing*

BGP4	Optional with Fireware™ Pro
OSPF	Optional with Fireware™ Pro
RIPv1, v2	Optional with Fireware™ Pro
Static Routes	√

*Security Features*

Stateful Packet Firewall	√
Application Proxies	HTTP, SMTP, FTP, DNS (TCP with Fireware™ Pro)
DoS and DDoS Prevention	√
Progressive DDoS Prevention	Optional with Fireware™ Pro
Protocol Anomaly Detection	√
Fragmented Packet Reassembly	√
Malformed Packet Protection	√
Static Blocked Sources List	√
Dynamic Blocked Sources List	Optional with Fireware™ Pro

*Logging/Reporting*

WebTrends compatible reports (WELF)	√
HTML reports	√
XML log format	Optional with Fireware™ Pro
Encrypted Log Channel	√
Syslog	√

*Alarms/Notification*

SNMP	Optional with Fireware™ Pro
E-mail	√
Management System Alert	√
Custom Program Alert	√

*Management*

Win32 management interface	√
Offline configuration w/GUI	√

*Certifications*

ISCA Firewall	√
ISCA IPSec	√

*Dimensions and Power*

Dimensions	1.75" (45mm) x 16.75" (426mm) x 9.45" (240mm)
Weight	9.68 lbs (4.39 kg)
AC Power	90-250 VAC Autosensing
Power consumption	US: 50 Watts Rest of World: 717 Cal/min, 2.9 BTU/min.
Rack mountable	√

*Environmental*

Operating Temperature	0 – 45C, (32 – 113F)
Non-operating Temperature	-40 – 70C, (-40 – 158F)
Operating Humidity	10% - 85%
Non-operating Humidity	10% – 95% Non-condensing at 55C (131F)
Non-operating random vibration	7 – 28 Hz 0.001 to 0.01 G2 per Hz
Acoustic noise	57 dBA at 20° - 25°C
Operating mechanical shock	20.0 G with 11 Msec duration 1/2 sine wave

*Security Services Available*

Spam Filtering	Optional with WFS
Gateway AntiVirus for E-mail	Optional with WFS
Gateway AntiVirus/IPS	Optional with Fireware™ Pro
Web Content Filtering	√
Vulnerability Assessment	√

### *Upgrades*

3-Port and High Availability Upgrade	√
Mobile User VPN Client Licenses	Upgrade by 5, 10, 20, 50 licenses
Desktop Antivirus Licenses	Upgrade by 1, 5, 10, 20, 50, 100 seat subscription
Fireware™ Pro	√

### **Why we chose this...**

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In comparing firewalls we have decided, through speaking with others, that the Watchguard brand is preferred. This size is ideal for 200-500 computers. The X1000 has application layer filtering, remote connectivity and intrusion prevention capabilities. With the X1000 we have VPN, which will help us make sure that the information sent outside the network is encrypted and is secure.



## **WIRELESS AP 802.11G 54MBPS**

**MfgPart#:** DWL-G700AP

**ProductCode:** 613840

**Our Price:** **\$56.08**

### **Standards**

IEEE 802.11b

IEEE 802.11g

IEEE 802.3

IEEE 802.3u

### **Device Management**

Web-based - Internet Explorer v6 or later; Netscape Navigator v6 or later; or other Java-enabled browsers.

### **Data Rate**

For 802.11g: 54, 48, 36, 24, 18, 12, 9, and 6Mbps

For 802.11b: 11, 5.5, 2, and 1Mbps

### **Security**

64/128-bit WEP

WPA (Wi-Fi Protected Access)

MAC address filtering

SSID Broadcast Disable function

### **Wireless Frequency Range**

2.412GHz to 2.462GHz

### **Wireless Operating Range**

*Indoors*

Up to 328ft (100 meters)

*Outdoors*

Up to 1312ft (400 meters)

### **Modulation Technology**

Orthogonal Frequency Division Multiplexing (OFDM)

Complementary Code Keying (CCK)

BPSK

QPSK

### **Receiver Sensitivity IEEE 802.11g**

-65dBm @ PER10% in 54M 64QAM

-66dBm @ PER10% in 48M 64QAM

-70dBm @ PER10% in 36M 16QAM

-74dBm @ PER10% in 24M 16QAM

-77dBm @ PER10% in 18M QPSK

-79dBm @ PER10% in 12M QPSK

-81dBm @ PER10% in 9M BPSK

-82dBm @ PER10% in 6M BPSK

### **Receiver Sensitivity IEEE 802.11b**

-82dBm @ PER8% in 11M CCK

-85dBm @ PER8% in 5.5M CCK

-87dBm @ PER8% in 2M QPSK

-87dBm @ PER8% in 1M BPSK

### **Wireless Transmit Power**

15dBm (32mW)±2dB

### **External Antenna Type**

Detachable dual antennas with 2dB gain

### **LEDs**

Power

WLAN

LAN (10/100)

### **Power**

External Power Supply

DC 5V/2A

### **AC Adapter**

100V~240V

## **Temperature**

### *Operating*

32°F to 131°F (0°C to 55°C)

### *Storing*

-4°F to 149°F (-20°C to 65°C)

## **Humidity**

5%~95% non-condensing

## **Certifications**

FCC part 15 class B & C

Wi-Fi

## **Dimensions**

### *Length*

5.59 inches (142mm)

### *Width*

4.29 inches (109mm)

### *Height*

1.22 inches (31mm)

### *Weight*

~0.44lb (200g)

## **Warranty**

1 Year

## **Why we chose this...**

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We have decided to go with the D-Link Wireless AP. After a great deal of research, we found this wireless access point to be the least expensive with the best features. The D-Link Wireless AP has the ability to transfer files with a maximum wireless signal rate of up to 54 Mbps. The wireless access points will be located in each of the labs, the cozy room and the student workroom. Faculty will also have access to the wireless connection. Those faculty members and students connected to the wireless network will only be able to access the Internet and will not have direct access to the entire network. We have chosen to limit access for security reasons. For those wireless users who wish to access their web folder or Helios directory, they may utilize the ftp service to do so.



### Gateway M320S Laptop

Sub Total: **\$819.99**

Shipping & Handling: \$44.00

Coupon Savings: **\$100.00**

**Total: \$826.63**

- **\$100** Mail-In Rebate (Limited Time Promotion -- not reflected in price)
- Microsoft® Windows® XP Home Edition
- Intel® Celeron® M Processor 350 (1.3GHz, 400MHz FSB, 1 MB L2 Cache)
- 256MB 333MHz DDR SDRAM
- 40GB 4200rpm Ultra ATA hard drive
- **15.0" XGA** TFT Active Matrix
- Microsoft® Works 8.0
- Integrated 24x CD-ROM
- Notebook Value Service Plan -- 90-day parts/labor/no on-site/90-day toll technical support
- High capacity lithium ion battery with AC pack and 1 yr. limited battery warranty
- (To accommodate additional cells, this battery extends beyond the end of the system) [ +US\$20.00]
- External speakers not selected
- Integrated 802.11 b/g wireless networking card (does not qualify as Centrino if Celeron® processor is selected)
- Norton AntiVirus 90 day introductory offer
- Integrated 4-in-1 card reader
- One type I PC card slot
- (4) **USB 2.0, VGA, IEEE 1394** (FireWire)
- Integrated Intel® Extreme 2 graphics with 32MB UMA memory technology
- Full-Sized Keyboard and EZ Pad® Pointing Device
- Integrated sound and stereo speakers, headphone/ speaker jack, and mic jacks
- Integrated V.92 56K modem
- Integrated Intel® **10/100** Ethernet Adapter
- Six months America Online® Internet access



### **Why we chose this...**

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This laptop was selected to serve in the diagnosis of problems that may occur with the servers. Since the laptop will only be used when problems arise and the software used on the computer will not require a great deal of RAM, we selected a very basic system. After comparing prices at a number of websites, we determined that this laptop from Gateway was the best value.

In the 'for a few \$\$ more...' section of the binder, you will find that there is an option to purchase laptop computers. This option is there in the hopes that the college will wish to purchase laptop computers that can be signed out by students on an hourly basis. This would allow students to utilize the comfy room while completing their assignments. The cost of the laptops is minimal and the students could be charged to replace the computer in the event they do not return it or it gets broken. (Students would be expected to sign a contract agreeing to terms of usage before obtaining access to the laptops.)



**Dimension<sup>®</sup> 3000  
with Free Hard Drive and 15"  
Flat Panel Monitor Upgrades**

**List Price: \$648.00**

**Sale Price: \$449.00**

**Intel<sup>®</sup> Celeron<sup>®</sup> D Processor 320 (2.40GHz, 533 FSB)**

**Operating System**

Microsoft<sup>®</sup> Windows<sup>®</sup> XP Home Edition

**Memory**

256MB DDR SDRAM at 400MHz<sup>3</sup>

**Monitors**

**15 inch EI 53FP** Analog Flat Panel

**Hard Drive**

80GB<sup>5</sup> Ultra ATA/100 7200RPM Hard Drive

**CD or DVD Drive**

Single Drive: 48X CD-ROM Drive

**Limited Warranty, Services and**

**Support Options**

90 Days Limited Warranty<sup>6</sup> plus 90 Days

NBD On-Site<sup>7</sup>

2 Up to 128 MB of shared system memory may be allocated to support graphics, depending on system memory size and other factors.

3 Between 32 and 64 MB of shared system memory may be allocated to support graphics, depending on system memory size and other factors.

4 DDR333 memory runs at 320MHz when used with 800MHz front side bus processors.

5 For hard drives, GB means 1 billion bytes; actual capacity varies with preloaded material and operating environment and will be less.

6 For a copy of our guarantees or limited warranties, please write Dell USA L.P., Attn: Warranties, One Dell Way, Round Rock, TX 78682. For more information, visit [http://www.dell.com/us/en/gen/misc/policy\\_010\\_policy.htm](http://www.dell.com/us/en/gen/misc/policy_010_policy.htm).

7 Service may be provided by third-party. Technician will be dispatched if necessary following phone-based troubleshooting. Subject to parts availability, geographical restrictions and terms of service contract. Service timing dependent upon time of day call placed to Dell. U.S. only.

### **Why we chose this...**

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We decided to choose Dell for our desktop computers. While SUNY Potsdam is primarily a Gateway campus, we could not pass up the bargain we found on the Dell system. These computers came with 256MB memory, an 80G hard drive, and a 15-inch flat panel monitor for only \$449. Twenty-five of these desktop computers will be placed in the Satterlee 301 computer lab, 2 will be placed in the workgroup room and one will be placed in the comfy room.



**Dimension" 3000  
with Free Hard Drive and 15"  
Flat Panel Monitor Upgrades**

**List Price: \$648.00**

**Sale Price: \$495.00**

**Intel® Celeron® D Processor 320 (2.40GHz, 533 FSB)**

**Operating System**

Microsoft® Windows® XP Home Edition

**Memory**

512MB DDR SDRAM at 400MHz<sup>3</sup>

**Monitors**

**15 inch EI 53FP** Analog Flat Panel

**Hard Drive**

80GB<sup>5</sup> Ultra ATA/100 7200RPM Hard Drive

**CD or DVD Drive**

Single Drive: 48X CD-ROM Drive

**Limited Warranty, Services and**

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### **Why we chose this...**

---

We decided to choose Dell for our desktop computers. While SUNY Potsdam is primarily a Gateway campus, we could not pass up the bargain we found on the Dell system. These computers were upgraded to a 512MB memory, and came standard with an 80G hard drive, and a 15-inch flat panel monitor for only \$495.00. Twenty of these desktop computers will be placed in the Satterlee 300 computer lab.

In addition to these desktops, there will be one tower that has an additional upgrade to include a CD/DVD burner. The upgrade will cost \$82.80.



## **AMERICAN POWER CONVERSION Matrix-UPS 3000 VA XR, 208/240 V**

**Manufacturer Part#:** MX3000XR

**Dell Part #:** A0052890

**Our Price: \$3,418.95**

Usually Ships: 1-2 Weeks

### **Overview Tech Specs**

Hi Safeguard mission-critical datacenter applications such as file servers, midrange systems and telecom equipment with Matrix-UPS 3000 VA XR UPS from APC. Its built-in automatic bypass capability ensures that seamless power is delivered to the loads even in the event of an electronics failure or an overload condition. Intelligent battery management provides high availability through intelligent precision-charging that maximizes battery performance, life, and reliability. Its text-based LCD display simplifies UPS management by facilitating quick diagnosis via stored alarm conditions and events. Additional manageability is available through the SmartSlot, an internal accessory slot that allows you to install optional accessories to enhance the performance of your UPS. The unit provides early-warning fault analysis for proactive component replacement and audible alarms that alert you to changes in the operating environment and battery conditions. Boost and Trim Automatic Voltage Regulation (AVR) preserves battery life and maximizes run time by correcting low and high voltage conditions without discharging the battery. Bundled with PowerChuteO Mmatrix-UPS management software, the Matrix-UPS 3000 VA XR UPS allows IT administrators to provide safe system shutdown and UPS management for servers and workstations.

### **Why we chose this...**

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We have chosen the 3000 VA because it allows IT administrators to provide safe system shutdown and UPS management. Another feature we thought was useful was that this UPS has a service called smartslot. This service notifies the administrator with a phone call or alarm when the system shuts down.



## **BenQ PB6200 DLP 1700 Lumens XGA**

**List Price: \$1,599.99**

**Our Price: \$1,290.00**

**You Save: \$309.99 (19%)**

Capture your audience like never before with the BenQ PB6200. With an emphasis on versatility, clarity, and true-to-life colors, we set out to create a projector that would breathe life into any classroom; boardroom; or midsize home theater, and would always leave our customers with the satisfaction of a life without compromise. With a Native XGA Resolution and **1700** ANSI Lumens, the BenQ PB6200 will light up the eyes of your audience.

The BenQ PB6200 also utilizes proprietary BenQ videoprocessing technology to support the latest DLPTM chip set from Texas Instruments. It is HDTV-compatible (480p, 720p and 1080i) with direct YPbPr/component (through VGA port), S-Video and composite video inputs. The new DDR DLP chipsets produce flawless pictures that won't fade or degrade over time, and the optical engine lifetime exceeds 100,000 hours while maintaining the images' original clarity.

The BenQ PB6200... Everything you need, Everywhere you need it to be.

### **Key Features**

DLPT<sup>™</sup> Technology, Superior Digital Picture Quality that won't fade over time. Native Resolution - XGA 1024x768 **1700** ANSI Lumens - Superior brightness, and clarity. 2000:1 - Ultra-High Contrast Ratio Wide-Angle Lens - For a 60" image @ 6.6' HDTV Compatible - (YPbPr)

Picture-In -Picture (PIP) 4:3/16:9 Selectable Aspect Ratio **DCMS** - "Dynamic Color Management System" for more vibrant and true-to-life color reproduction. **3000** Hours Lamp Life (Economy Mode)\*

1:1.2 Optical Zoom Lens

Whisper Quiet - operating at 34dB

Full function intelligent remote control

3-Year Limited Warranty, Reliability Guaranteed

Free 1st year Hot Swap Service

### **Functions**

*Keystone* - Restores a trapezoidal image caused by a tilted projection angle back to a perfect rectangular shape.

*Digital Zoom* - Enlarge or decrease a section of the picture.

*Blank* - Turns the image on & off.

*Freeze* - Freezes the frame of a video presentation

### **Why we chose this...**

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We have decided to purchase our projector from TigerDirect because it was less expensive when purchased from this company than from others. We have chosen the BenQ BP6200 projector because we wanted a native resolution greater than 800\*600. (This model's resolution was 1024\*768.) Since a better resolution means a clearer picture, we wanted the output from the projector to be as clean and clear as possible. Seeing as how there is a possibility students and faculty may display images that are bigger then 800\*600 we didn't want these images to look disproportional on the screen.





### **BenQ PB6200 Replacement Lamp**

**Our Price: \$389.00**

#### **Detailed Description**

BenQ has a vision of technology as an integral part of daily life for everyone, young and old, tech-savvy and tech-timid alike, whether at work, school or play, at home or on the move. BenQ digital life devices are fun and easy to use, expanding the senses and empowering people to express and share their ideas, delivering on the promise of the Digital Age.



## **Draper Aero Height Adjustable with Universal Projector Bracket**

**Mfg Part #: 232453**

**List Price: \$400.00**

**Our Price: \$229.81**

**You Save: \$170.19**

### **Aero Universal Projector Bracket**

Draper has solved the projector bracket problem with a bracket that fits virtually any LCD/DLP projector.\*

### **Inspired Design**

Our slender columns are designed to look sophisticated and harmonize with today's smaller LCD and DLP projectors used in the home and office.

### **Function and Form**

Aero and Accuset Mounts combine appearance with features to serve as a functional accompaniment: infinite height adjustment, built-in cable management, rotation, tilt, and precise projector orientation for instant image registration.

### **Installer Friendly**

An innovative solution, the Aero Universal Projector Bracket makes mounting your projector a simple activity and takes the guesswork out of ordering a mounting bracket. Works with projectors weighing less than 26 pounds, and that have threaded mounting holes on the bottom. Moving or upgrading your projector is easy. Our Security Lock Kit is an excellent theft deterrent.



One screw adjusts column pitch  $\pm 300$ . Adapts to cathedral ceilings without special fixtures.



Universal, no headaches when it comes to compatibility! The Aero Universal Projector Bracket is standard with all Draper Aero Mounts for LCD/DLP Projectors, Aero Low Profile Brackets, and the all new Aero Accuset Mounts for LCD/DLP Projectors.

## Features:

- The revolutionary Aero Universal Projector Bracket attaches quickly and easily to your projector-any projector-and creates a sleek appearance.
- The Aero Universal Projector Bracket fits almost any projector under 26 lbs.
- You can stock one bracket for every projector you use. It will never be obsolete!
- Ball joint allows instant registration of projected image.
- Infinite adjustment capacity helps you find and secure the projector's center of gravity, so the projector hangs level.
- Threaded spacers to level bracket on projectors with different elevations.
- The Aero Universal Projector Bracket comes with all the hardware and spacers needed to adjust for an uneven projector surface.
- Mix and match the short and long arms and various bolt sizes as needed for your projector.
- Adjustable steel ceiling mounting plate has slotted screw holes for fine adjustments.
- Inner column is infinitely adjustable within the specified range. Loosen one concealed setscrew, lower to the exact extension you need and tighten the screw. Inner column has a mechanical safety stop to prevent it from disengaging from outer column.
- Telescoping extruded aluminum column in your choice of 5 extension ranges. Matt black epoxy powdercoat finish.

*\*Any LCDIDLP projector designed for inverted ceiling-mounting, with threaded mounting holes on the bottom of projector, weighing 26 pounds or less.*

Manufactured by: **Draper**  
Shipping Weight: **6.0 pounds**  
**Limited Warranty:**  
**12 months parts; 12 months labor**

**Manufacturer Warranty:** A full text version of the manufacturer's warranty may be obtained by mailing a self addressed, stamped envelope to the address below and requesting the warranty for item number: **D1772022**

### **Why we chose this...**

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We selected this bracket because it is a universal ceiling mount. This mount should fit all projectors; if the school decided to upgrade the projector they will still be able to use this mount.



### **Pegasus 8 Bay Rackmount NAS w/ 200Gb Drives**

1.4Tb usable network storage  
with RAID5 protection

**Price: \$4195.00**

Our most popular NAS configuration. This unit is designed for high capacity, intensive network transmission. Its advanced hardware design and software technology deliver airtight security, high performance, and centralized, cross-platform data management. The Pegasus series offers simple installation and operation, including data redundancy options that protect crucial data. The built-in management software makes administration simple- change NAS setup with a few mouse clicks. The Pegasus is O/S independent, plug and play storage that is easy to use while offering the benefits of more costly systems.

- **P4 1.8GHz processor.**
- 512Mb cache upgradable to 1Gb.
- 2 10/100/1000 base-TX. **-RAID 0,1,0+1,3, 5, & JBOD** capable.
- All drives, cooling fans and power supplies are hot swappable.
- Dual 300 watt redundant power supplies.
- Three year parts and labor warranty, [upgradable to five years](#).
- Comes with an [easy to use monitoring software](#) which allows real time event display and notification in event of array status change.
- 2U, 19" rack mountable.

### **Why we chose this...**

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We selected this RAID because it was the most cost effective of the many RAID devices we researched. This device has an auto-rebuilding feature, which allows the RAID to rebuild itself if a problem occurs instead of requiring that the network manager or other technician rebuild the RAID. This piece of hardware is compatible with the Linux operating system.

## **48PT CAT5 PATCH PANEL-110 PUNCHDOWN 568AB**



**Manufacturer Part#** F4P338-48-AB5

**Dell Part#:** A0433266

**Our Price:** **\$156.95**

**Usually Ships:** Within 24 Hours

### **Overview**

What is a patch panel? Think of it as an old fashioned switchboard. A place where network connections are made and often rearranged, guiding the information to the correct destination, each and every time. And since you don't want to change your patch panel every time you upgrade your network, Belkin's built this one to meet the new enhanced Category 5e requirements. This 48 port CAT 5e patch panel is 19 inch rack mountable and supports both 568A and 568B installations. Compatible with both 110 and Krone punch down tools, with angled design that increases bend radius.

### **Why we chose this...**

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We have decided to choose this patch panel because it was the least expensive. This patch panel from Dell can be rack mounted and has 48 ports. These features serve our needs because we have many computers using this piece of equipment and we have selected a rack-mounted system for our hardware.

**Allied Telesyn 8-port AT-ESZ09FC Unmanaged Switch**



List Price: \$137.95

Our Price: **\$124.16**

You Save: \$13.79

**Product Details**

**Form Factor:** External

**Status Indicators:** Port status, link activity, port duplex mode, power, link OK

**Depth'** 18.2 cm

**Features:** Flow control, uplink, stackable

**Height:** 3.8 cm

**Weight'** 1.7 kg

**Width:** 30.4 cm

**Communication Mode:** Full-duplex

**Compliant Standards:** IEEE 802.3, IEEE 802.3U

**Connectivity Technology'.** Wired

**Data Link Protocol:** Ethernet, Fast Ethernet

**Data Transfer Rate:** 100 Mbps

**Device Type:** Switch

**Dimensions (WxDxH):** 30.4 cm x 18.2 cm x 3.8 cm

**Enclosure Color'.** White

**Enclosure Type:** Rack-mountable – external

**Max Operating Temperature:** 40 'C

**Min Operating Temperature:** 0 'C

**Why we chose this...**

---

This 8-port switch will be used to connect the computers in the cozy room and student workroom to the network. Since there are only 3 computers and 3 printers in these two rooms, an 8-port switch will be sufficient and will allow for two more pieces of hardware to be attached to the network. This particular switch was the most cost-effective.

**PowerSWITCH CNSH-1600 -  
Switch- 16 port(s) - 100Base-TX -  
100 Mbps - Fast EN - CNSH1600**



**Item#:** C3JYTF  
**Buy.com Sku:** 10217036  
**Manufacturer:** CNET, INC.  
**Mfg Part#:** CNSH1600

**Our Price:** **\$58.56**  
**List Price:** \$100.00  
**You Save:** \$41.44

**Usually Ships in 1 to 2 business days.**

### **Product Description**

CNet CNSH-1600/1601 hubs give users sixteen 100/10Mbps Switched ports in a compact sized case. Either Hub is an excellent choice for networks needing to instantly expand bandwidth or Bridge 100Mbps segments with 10Mbps segments. The CNSH-1601 includes a fiber port that allows network connections up to 2 km and offer SC-type or ST-type connectors. These Hubs are also a wise investment for growing SOHO networks. Simply attach a network cable and each port on these Hubs automatically creates an independent network segment. This gives users the ability to create independent network segments with the change of a cable. In addition, each port supports IEEE 802.3X Flow Control for Full-Duplex operation and Back-Pressure support for Half-Duplex operation. These technologies are your best protection against data packet loss.

Each TP port is Auto-Negotiation equipped and capable of Bridging 100Mbps segments with 10Mbps segments. The Auto-Negotiation function smoothly and automatically sets each port to operate at the fastest possible speed. The CNSH-1601's fiber port provides a DIP switch that can be set for 100Mbps or 200Mbps Forced Full-Duplex operations. No network configuration is needed for network attachment. To make either model operational, users only need to attach network cabling, then power "On". All ports are located on the front panel along with a wide range of diagnostic LEDs. Both models come with long ear clips for rackmount placement. Their compact size also makes them an excellent choice for desktop placement.



**Features:**

- Product Description - PowerSWITCH CNSH-1600 - switch - 16 ports
- Device Type - Switch
- Form Factor - External
- Dimensions (WxDxH) - 17.4 in x 7.2 in x 1.7 in
- Ports Qty - 16 x Ethernet 10Base-T, Ethernet 100Base-TX
- Data Transfer Rate - 100 Mbps
- Data Link Protocol - Ethernet, Fast Ethernet
- Communication Mode - Half-duplex, full-duplex
- Features - Full duplex capability, auto-negotiation, VLAN support, auto-uplink
- Compliant Standards - IEEE 802.3, IEEE 802.3U, IEEE 802.1Q, IEEE 802.1p, IEEE 802.3x
- Power - AC 110/230 V ( 50/60 Hz )

**Technical Specs:**

- Device Type - Switch
- Enclosure Type - External
- Width - 17.4 in
- Depth - 7.2 in
- Height - 1.7 in
- Ports Qty - 16 x Ethernet 10Base-T, Ethernet 100Base-TX
- Data Transfer Rate - 100 Mbps
- Data Link Protocol - Ethernet, Fast Ethernet
- Connectivity Technology - Wired
- Communication Mode - Half-duplex, full-duplex
- Switching Protocol - Ethernet
- Status Indicators - Link activity, collision status, power, port partition, transmit, receive
- Features - Full duplex capability, auto-negotiation, VLAN support, auto-uplink
- Compliant Standards - IEEE 802.3, IEEE 802.3U, IEEE 802.1Q, IEEE 802.1p, IEEE 802.3x
- Interfaces - 16 x network - Ethernet 10Base-T/100Base-TX - RJ-45
- Power Device - Power supply - internal
- Voltage Required - AC 110/230 V ( 50/60 Hz )
- Power Consumption Operational - 9.9 Watt
- Min Operating Temperature - -4 °F
- Max Operating Temperature - 158 °F
- Humidity Range Operating - 10 - 90%

### **Why we chose this...**

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The 16 port switches will be used to connect the computers and other hardware from the PC lab and the offices to the network. The PC lab will have 26 computers and 2 printers that will need to be connected to two 16-port switches.



### **SMC 24 10/100 Desktop Switch with Fiber Uplink**

**List Price: \$199.99**

**Our Price: \$94.99**

You Save: \$105.00 (52%)

**Two-Year Extended Protection  
(Repair\Replacement) for \$25.00**  
*(not available in Virginia)*

In stock. This product normally leaves our warehouse within 1-3 business days.\*

The EZ Switch 10/100 provides eight 10/100 switching ports and a slot for an optional fiber uplink. A range of 100Mbps connectors is available, including SC, MTRJ, and VF-45. It is most ideal for workgroups looking for distance connection, suitable for environment such as schools, university campus, and between buildings.

Look to Overstock.com for huge savings on all your computer and networking needs.

#### **Specifications:**

- Device type: 24 + 1 port 10BASE-T/100BASE-TX rackmountable switch
- Ports: 24 x auto-MDIX 10BASE-T/100BASE-TX RJ-45 ports, 1 slot for expansion module
- Network interface: 10BASE-T--RJ-45 UTP cat. 3/4/5
- 100BASE-TX: RJ-45 UTP cat. 5
- Queue buffer: 768Kbytes
- Standards: IEEE802.3u/IEEE802.3/ IEEE802.3x

#### **Features include:**

- Auto-MDIX ports (no crossover cables required)
- Rackmountable
- Simple VLAN application for easy management
- A range of fiber modules to choose from with SC/ST/VF-45/MT-RJ connectors

*This product is not available in US territories or APO/FPO due to shipping requirements.*

**Warranty:** 1 year - manufacturer

**Materials:** Computer components

**Model No:** SMCEZ1024FDT

**Dimensions:** 17.3 in. x 6.9 in. x 1.8 in.

### **Why we chose this...**

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The high-end graphics lab will be connected to the network via one 24-port switch, as there will be 21 computers and 2 printers that will need to be networked. (If the school decides to expand the size of the lab, an 8-port switch can easily be added.) The offices will be connected to one 24-port switch as well. While there are only 15 offices, we are leaving spaces on the switches open for expansion of the network.



## HP LaserJet 4250dtn Printer (b/w)

Price: \$1,707.00

Speed/Monthly Volume	
Print speed, black (best quality mode)	Up to 45 ppm
First page out, black	Less than 8 sec
Processor speed	460 MHz
Recommended monthly volume, maximum	200000 pages
Print Quality/Technology	
Print Technology	Laser EP
Print Quality, black	Up to 1200 x 1200 dpi
Resolution technology	HP ProRes 1200, HP FastRes 1200, Resolution Enhancement technology (Ret)
Paper Handling/Media	
Paper trays, std.	3
Paper trays, max	5
Input capacity, std.	Up to 1100 sheets
Input capacity, max	Up to 3100 sheets
Standard envelope capacity	Up to 10 envelopes
Envelope feeder	Yes, 75
Output capacity, std.	Up to 300 (250 face down, 50 face up) sheets
Output capacity, max	Up to 800 sheets
Duplex printing (printing on both sides of paper)	Automatic (standard)
Paper handling, Input (standard)	100-sheet multipurpose: tray 1, two 500-sheet trays (2 and 3), two-sided printing accessory
Paper handling, Input (optional)	500-sheet or 1500-sheet input tray (2 additional trays for up to 3100-sheet input capacity), 75-envelope feeder
Paper handling, Output (standard)	50-sheet rear output bin, 250-sheet top output bin

Paper handling, Output (optional)	500-sheet stacker or 15-sheet stapler/500-sheet stacker
Media sizes, std.	Letter, legal, executive, statement, 8.5 x 13 in, envelopes (no. 10, Monarch)
Media sizes, custom	Multipurpose Tray 1: 3 x 5 to 8.5 x 14 in; Trays 2 and 3: 5.8 x 8.3 to 8.5 x 14 in
Media weight, recommended	Multipurpose Tray 1: 16 to 53 lb; Trays 2 and 3, optional 1500-sheet HCI tray, two-sided printing accessory: 16 to 32 lb; optional envelope feeder: 20 to 28 lb
Media types	Paper (plain, preprinted, letterhead, prepunched, bond, recycled, color, rough), transparencies, labels, envelopes, cardstock, user-defined
Print languages, std	HP PCL 6, HP PLC 5e, HP Postscript Level 3 emulation, direct PDF (v 1.3) printing (with at least 128 MB printer memory)
<b>Memory/Print languages</b>	
Memory, std	80 MB
Memory, max	512 MB
Memory slots	Two 100-pin DDR DIMM slots, two open industry-standard CompactFlash slots
Hard disk	Optional, 20 GB HP High-performance EIO hard disk
<b>Connectivity</b>	
Connectivity, std.	Hi-Speed USB 2.0 port, IEEE 1284-B compliant parallel port, 2 open EIO slots, HP Jetdirect Fast Ethernet Embedded Print Server
Connectivity, opt.	HP Jetdirect EIO internal print servers, HP Jetdirect external print servers, HP wireless print servers, HP Jetdirect EIO connectivity card for USB/serial/LocalTalk, Bluetooth wireless
Print drivers, std.	HP PCL 6, HP PCL 5e, HP PostScript Level 3 emulation, HP-GL/2

Connectivity, std.	Hi-Speed USB 2.0 port, IEEE 1284-B compliant parallel port, 2 open EIO slots, HP Jetdirect Fast Ethernet Embedded Print Server
Connectivity, opt.	HP Jetdirect EIO internal print servers, HP Jetdirect external print servers, HP wireless print servers, HP Jetdirect EIO connectivity card for USB/serial/LocalTalk, Bluetooth wireless
Print drivers, std.	HP PCL 6, HP PCL 5e, HP PostScript Level 3 emulation, HP-GL/2
<b>Dimensions/Weight/Warranty</b>	
Dimensions (w x d x h)	16.5 x 21 x 19.6 in
Weight, U.S.	65.5 lb
Warranty, std	One-year, return to HP authorized service center warranty
<b>What's in the Box</b>	
What's in the Box	HP LaserJet 4250dtn Printer, right-angle power cord, control panel overlay, print cartridge, software and documentation on CD-ROM, Getting Started Guide, support flyer, HP Jetdirect Fast Ethernet Embedded Print Server, additional 500-sheet input paper tray, two-sided printing accessory
Software included	Print drivers and installation software on CD-ROM (HP PCL 6, HP PCL 5e, PS, PPDs, HP LaserJet Utility, HP LaserJet Toolbox, Macintosh software)

### **Why we chose this...**

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We will be getting 4 black and white laser printers. We have decided to get our printers from HP. HP had a great value on black and white printers with a built in printer server. We decided to go with the 4250dtn because it has 2 trays that hold 500 pages each and prints double-sided. The printer is easily upgradeable to hold more paper and staple the papers after they are printed.





## HP Color LaserJet 3700 Printer

**Price: \$999.99**

Speed/Monthly Volume	
Print speed, black (best quality mode)	Up to 16 ppm
Print speed, color (pages per minute)	Up to 16 ppm
First page out, black	20 seconds (from both Ready and Powersave)
First page out, color	20 seconds (from warm and Powersave)
Processor speed	350 MHz
Recommended monthly volume, maximum	55,000 pages
Print Quality/Technology	
Print Technology	Laser
Print Quality, black	True 600 x 600 dpi with HP ImageREt 2400 and HP's print quality refinement technologies, providing professional-looking color documents through a multi-level printing process
Print quality, color	True 600 x 600 dpi with HP ImageREt 2400 and HP's print quality refinement technologies, providing professional-looking color documents through a multi-level printing process
Paper Handling/Media	
Paper trays, std.	2
Paper trays, max	3
Input capacity, std.	350 sheets
Input capacity, max	850 sheets
Standard envelope capacity	10 envelopes
Envelope feeder	No
Output capacity, std.	Output bin: 150 sheets; rear-sheet output door for straight-through paper path: 25 sheets

Output capacity, max	Output bin: 150 sheets; rear-sheet output door for straight-through paper path: 25 sheets
Duplex printing (printing on both sides of paper)	Manual (driver support provided)
Media sizes, std.	Letter, legal, executive, envelopes (no. 10, Monarch)
Media sizes, custom	Multipurpose Tray 1: 3 x 5 to 8.5 x 14 in; Tray 2: 5.8 x 8.3 to 8.5 x 14 in; Tray 3: 8.5 x 11 in and 8.3 x 11.7 in
Media weight, recommended	Multipurpose Tray 1: 16 to 43 lb bond ; Trays 2 and optional tray 3: 16 to 28 lb bond (60 to 105 g/m <sup>2</sup> )
Media types	Paper (plain, glossy, recycled), transparencies, cardstock, labels
<b>Memory/Print languages</b>	
Memory, std	128 MB
Memory, max	448 MB
Memory slots	2 open memory slots; 64 MB memory fixed internally
Hard disk	none
Print languages, std	HP PCL 6, HP PLC 5c, Postscript 3 emulation (automatic language switching)
Typefaces	80 internal fonts available for both PCL and PostScript emulation, 80 printer-matching screen fonts in TrueType format available with the software solution
<b>Connectivity</b>	
Connectivity, std.	IEEE 1284-compliant bidirectional parallel port, USB 1.1 port, 1 open EIO slot
Connectivity, opt.	HP Jetdirect EIO internal print servers and HP Jetdirect external print servers
Macintosh Compatible	Yes
Print drivers, std.	PostScript and PCL6 drivers for Windows, PostScript PPD for Mac

<b>Dimensions/Weight/Warranty</b>	
Dimensions (w x d x h)	19.7 x 17.6 x 18.4 in
Weight, U.S.	73.3 lb
Warranty, std	One-year, limited hardware, on-site HP warranty with phone and web support
<b>What's in the Box</b>	
What's in the Box	HP Color LaserJet 3700 printer, HP Color LaserJet print cartridges (1 each: cyan, magenta, yellow, black), power cord, Getting Started Guide, software and electronic User's Guide on CD-ROM
Software included	PostScript and PCL6 drivers for Windows, PostScript PPD for Mac, driver management configuration for Windows drivers, auto configuration for Windows drivers, toolbox for Windows and Mac, installer for Windows and Mac (Macintosh software)

### Why we chose this...

---

We will be getting 3 color printers. We have decided to get our printers from HP. HP had a great value on color printers with a built in printer server. We decided to go with the 3700 because it has 2 trays that hold 350 pages each. The printer is easily upgradeable to hold more paper and print on a wider variety of paper sizes.

## PowerEdge SC 1425

**Price: \$799-\$1297**



The server solutions below are pre-configured with the essentials you need. Start with the basic server or choose the business-optimized configuration and add on the software, peripherals, and services your business requires.

- The PowerEdge SC1425 is a 1U server specifically tailored for the unique availability and manageability requirements of distributed cluster applications.
- A high performance, rack-dense dual processor server targeted primarily at Small and Medium Business (SMB) customers and high performance computing customers that require high performance, but do not need high availability systems because redundancy is provided at the application level.
- To ease purchasing and deployment, Dell offers validated, configured & supported SC1425 cluster bundles (8, 16, 32, 64, 128 and 256 nodes).
- The bundles are built on Linux RHEL 3 AS/WS and are offered with four different interconnects: Fast Ethernet, [Gigabit Ethernet](#)<sup>1</sup>, Myrinet and Infiniband.
  - Support bundles pre-sales consulting, design, architecture, and benchmarking, to post-sales staging, testing, validation, installation, configuration, and optimization are provided.

### **PowerEdge SC 1425**

**Dual Intel® Xeon® 1U Server (SATA Hard Drives)**

**List Price: \$999**

**Sale: \$799**

#### **Processor**

Intel® Xeon™ processor, 2.8GHz, 1MB Cache, 800MHz FSB

#### **Operating System**

No Operating System

#### **Memory**

256MB, DDR2, 400MHz, 1X256, Single Ranked DIMMs

#### **Primary Hard Drive**

7200 RPM SATA Hard Drive

#### **CD/DVD Drive**

NO CD ROM

#### **Hardware Support Services**

1 Year Basic Plan

### **PowerEdge SC 1425**

**Dual Intel® Xeon® 1U Server(SCSI Hard Drives)**

**List Price: \$1,497**

**Sale: \$1,297**

#### **Processor**

Intel® Xeon™ processor, 3.2GHz, 1MB Cache, 800MHz FSB

#### **Operating System**

No Operating System

#### **Memory**

1GB, DDR2, 400MHz, 2X512, Single Ranked DIMMs

#### **Primary Hard Drive**

10K RPM Ultra 320 68pin SCSI Hard Drive

#### **CD/DVD Drive**

NO CD ROM

#### **Hardware Support Services**

1 Year Basic Plan

### **Why we chose this...**

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We chose this server for several reasons. First, Dell offers good quality equipment. In the past, Dell hardware was expensive, but the prices have dropped considerably in the last year.

We selected a server from the Poweredge family because it offers all the features we wanted: It is scalable, which will allow us to include both a low and high-end version of the server and is produced so as to be included in a rack configuration.

Dell also offers good service and warranties on all its equipment.



**Panasonic KX-BP800  
Interactive Panaboard**

**Price: \$2565.00**

**Features:**

- **Interactive Panaboard** - The All-In-One Interactive Print Board Solution. Functions as an Interactive Board, an Electronic Whiteboard, a projector screen and an Electronic Print Board with plain paper output.
- **Teleconferencing** - When used in conjunction with Microsoft NetMeeting, provides a cost-effective real-time teleconferencing solution so everyone can attend a meeting, whether they attend on-site or remotely.
- **Remote PC Operation** - Control your applications for Windows right from the Panaboard using the included Electronic Pens like a computer 'mouse'.
- **Colorful Electronic Pens** - Track meeting notes and important words to emphasize critical issues in color.
- **High Quality Projector Screen** - The screen displays crisp data and video images with minimal light reflection.
- **Capture Images** - Save meeting notes to computer files for archiving and distribution.
- **Built-in Printer** - Allows for materials to be distributed to the audience in seconds.

**Description**

The KX-BP800 can support your needs by opening your meetings and presentations to your business colleagues at locations around the world, thereby offering a cost effective global teleconference solution. By also serving as a projector screen, you can project images from your computer onto the board and control your applications for Windows®. So whether your requirements call for training, global teleconferencing, or affordable brainstorming, the KX-BP800 offers you the ideal solution.

**Specifications**

**External Dimensions (Without Stand):**

55.1" (H) x 61.0" (W) x 8.7" (D)

**Panel Diagonal Dimension:**

62.1"

**Panel Surfaces:**

2

**Panel Advance System:**

Scroll Type

**Copying Area:**

35.4" (H) x 55.1" (W)

**Scanning System:**

CCD Flat-Scan Type

**Copy Paper Type:**

Plain Paper

**Printing Process Method:**

Fusion Transfer

**Copy Paper Size:**

Letter

**Copy Density:**

203 dpi

**Contrast Adjustment:**

Two Levels: Normal / Dark

**Two-Screen Compressed Copying:**

Yes

**Copying Time / Sheet:**

15 Seconds

**Continuous Copies:**

1 - 9

**Paper Indicator:**

Yes

**Writing Implements:**



Dry Erase Markers (Black, Blue & Red) Electronic Pen Colors )Black, Red, Blue & Green)

**Weight (Without Stand):**

75 lbs.

**Power Supply:**

AC 100 - 120V, 50/60Hz

**Power Consumption:**

2.2 A/0.1 A (Operational)

**Why we chose this...**

---

We have chosen to recommend the Panasonic Interactive PanaBoard because we feel it would greatly benefit those students who are working in the workroom. The PanaBoard allows individuals to write on the surface using specially designed markers. The information written on the board can be sent to a printer or saved to a computer to use later. We feel this piece of hardware would be helpful when working in groups. Instead of everyone having to write down the information discussed, the students can simply use the interactive board then print a copy for everyone in the group. If students choose to send the information to a computer, they can instantly alter the information without having to scan a document or re-type all the information.



### **ScanJet 4600 2400DPI See-Through Flatbed Scanner**

**Part No: 77563**

**Mfg Part #: Q3112A#A2L**

**Price: 39.35**

#### **Highlights**

HP scanning technology meets ultrathin, breakthrough design in the HP Scanjet 4600 see-thru flatbed scanner. See exactly what you're scanning through the durable window. After a quick preview (as little as six seconds), your photo-quality image emerges.

- See and pinpoint what you're scanning by positioning it in the scanning window—the breakthrough-thin, durable design makes it easy
- Scan items of varying sizes: photos, documents, pages of books, and more
- Scan large items in sections that can be easily reassembled using the included software
- Get photo-quality results from the 2400 dpi optical resolution and 48-bit color
- Resist breakage and scratches with the durable window made of tough polycarbonate
- Preview scans fast—in as little as six seconds
- Make copies at the touch of a button
- Crop photos and more with the automatic cropping feature; use HP Photo & Imaging software to enhance your images
- Scan, copy, print, and e-mail images to family and friends with HP Instant Share™
- Create digital slide shows on CD with the HP Memories Disc Creator software (CD writer required, not included, please purchase separately)
- Scan negatives and slides by adding a transparent materials adapter (not included, please purchase separately)
- One-year limited warranty

#### **What's in the box?**

- HP Scanjet 4600 see-thru flatbed scanner
- Combined USB and power cable assembly
- Horizontal holder
- Quick-start setup poster
- User's manual
- CD-ROM with software for Microsoft® Windows® and Macintosh®: HP Photo & Imaging software with HP Memories Disc Creator & HP Instant Share, HP copying software, suite of electronic help tools, Adobe® Acrobat® Reader®, ArcSoft® Panorama Maker™, I.R.I.S. Readiris™ OCR software, Hemera Greeting Card Creator

**Specifications:**

- Optical resolution 2400 dpi
- Hardware resolution 2400 x 2400 dpi
- Bit depth 48-bit
- Compatibility Microsoft® Windows® XP Professional or Home Edition, 2000 Professional, Me, 98, 98 SE; Mac® OS 9.1 and higher, OS X 10.1.5 or 10.2 or higher
- Maximum document size 8.5 x 11.7"
- Scanner software HP Photo & Imaging with HP Memories Disc Creator and HP Instant Share; HP copying software; Adobe® Acrobat® Reader®; ArcSoft® Panorama Maker; I.R.I.S Readiris™ Pro 8.0; I.R.I.S Readiris; Hermera Greeting Card Creator
- Connectivity 1 Hi-Speed USB (compatible with USB 2.0 specifications)
- Preview scan speed 6 seconds minimum
- Number of front panel task buttons 4
- Automatic document feeder included No
- Transparent materials adapter included Optional
- Automatic photo feeder included

**Why we chose this...**

---

This scanner was affordable and PC compatible. It has a see-through window so that you can see the location of the document you are scanning while it is inside the scanner. This is a nice feature because it enables you to know the exact placement of your document. This particular scanner is quite small so it conserves space.



### **Cosmopolitan Electrol - Glass Beaded**

Provides a more reflective material (Gain: 2.5) at a moderate viewing angle of up to 30 degrees. Screen material can be difficult to clean.

**Price: \$854.99**

**Availability:** Usually ships within 3-5 days. Rush shipping is available - call for details.

### **Detailed Description**

Ideal for applications where a recessed installation is not desired or feasible.

Patented in-the-roller motor mounting system for quiet operation.

Handsome white enamel case blends with any decor.

Optional floating mounting bracket allows screen to be mounted onto a wall or ceiling studs and aligned left or right after installation by releasing two sets of screws.

### **Why we chose this...**

---

We chose this screen because we wanted a screen that was 10ft\*10ft. This screen will provide a square, glass-beaded surface for an image to be projected upon. Since the computer screens that are in the labs are square, the image being projected will appear the same as that being viewed at a workstation. This particular screen was the most cost effective on the market. We also chose an electrical roll down screen because we have found that manual screens can easily become damaged making them hard to use.

## Server Software

### Why we chose this...

---

In selecting software our philosophy was that we wanted to use open source products.... The quality of the products was very high and the cost savings more then offset any additional fees needed for either training operators or use of an occasional consultant.

Our plan is to use five rack mounted Linux (Red Hat) servers that are interconnected to a RAID, a network router, a UPS, patch panel, switches, wireless gateways and also a Firewall.

1. Boot Server-
  - a. This server would use The Network File System Software (NFS) to provide a fast, seamless interface for sharing files across your specific network.
  - b. NIS+ would also be hosted on this server. NIS+ is an improved version of NIS as it allows for data encryption and also authentication over secure RPC. NIS+ provides management of all userids, password, and mail\_aliases.
  - c. For IP addressing we would use Dynamic Host Configuration Protocol (DHCP). This software assign and keeps track of all IP addresses. The advantage of this version is that the dynamic aspect allows for and IP address to be assigned to new machines added to the network without the administrator having to do it manually.
2. Data Server- We chose MySQL as our database software. It is a standard product and though there would be a licensing cost for use of the software, installing, and annual support we believe the \$1995.00 would be well spent for the first year. During that time we would hope that internal support could be developed thus eliminating the need to paying an annual support fee.
3. Web Server-
  - a. Web-Truthfully Apache httpd is the industry standard capable of working across platforms and is HTTP/1.1 compliant. The software includes full source code and an unrestrictive license. It is customizable and is actively being developed and upgraded.

- b. FTP-We would host ftp services also on this server. We would use WU-FTPD software originally developed at Washington University. This software would replace the Red Hat FTP daemon. This software is able to handle all ftp duties on the network.
- 4. Email Server- Scanmail—This product is very scaleable. It can not only handle the email server's duties but additional modules/features can be added to provide anti-spam and anti-virus protection.
- 5. Print Server-CUPS is the open source program we chose. It has a web interface, network printer directory services, encryption support, PPD-based printer drivers along with many other features that made it a natural choice.



### **AVerMedia AVerVision 300 Document Camera**

**List Price: \$999.99**

**Our Price: \$949.99**

You save: \$50.00

**Usually ships within 2-3 days.**

Presentations are now a snap with AVerVision300's unparalleled value and performance. AVerMedia's AVerVision300 is a new portable and lightweight document camera with a mechanical arm design.

AVerMedia's AVerVision300 is a new portable and lightweight document camera with a mechanical arm design. Thanks to the built-in 850K-pixel CCD sensor and the 1024x768 VGA/DVI output resolution, you can now easily display 12-pt small text through LCD/DLP projectors or VGA monitors.

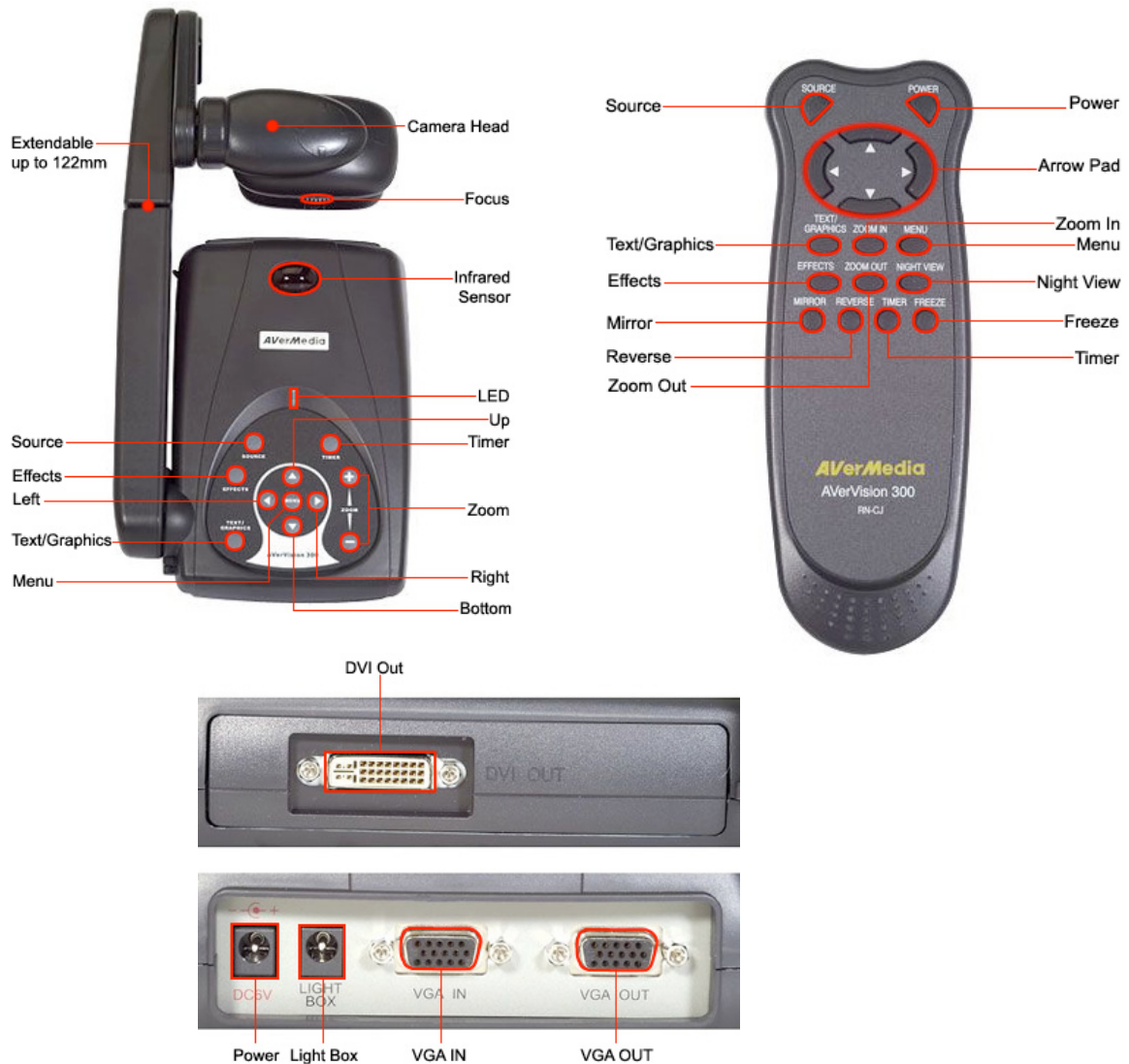
The space saving, compact design (3.9lbs, 8.8" x 5.6" x 2.2") and its affordable price make AVerVision300 the perfect companion for any LCD/DLP projector application.

#### **Specifications**

- **Image Sensor:** 1/3" Color CCD
- **Mechanical Arm:** 22"
- **Base Unit:** 8.8"(L) x 5.6"(W) x 2.2"(H)
- **Remote Control:** 6.22"(L) x 2.2"(W) x 1"(H)
- **Focal Length:** 6.7mm
- **Focal Range:** 1/4" to Infinity
- **Lens:** f2.8
- **Iris:** Electronic Iris
- **Video Outputs:** 15-pin D-Sub / DVI / VGA pass thru
- **Resolution:**
  - Total - 1077(H) x 788(V)
  - Effective - 1024(H) x 768(V)
- **Pixel Count:**
  - Effective - 790K

- Total - 850K
- **Power Supply:** 6V DC Power Adapter
- **Operating Temperature:** 0° C to 40° C (32° F to 104° F)
- **Weight Base Unit:** 3 lbs
- **Remote Unit:** 0.22lb
- **Compliance:** FCC Class B, CE, UL

## A Closer Look



## Features

- **High-Quality 850K Pixel Color CCD Image Sensor**

Thanks to the built-in 850,000 pixel CCD sensor, you can now easily display 10 to 12-pt small text through LCD/DLP projectors or VGA monitors. Additionally, AVerVision300's automatic white balance control ensures that only the proper amount of light enters the camera to maintain the perfect image quality.



- **Supports 1024 x 768 VGA and DVI Output**

AVerVision300 displays 640 x 480, 800 x 600 and even 1024 x 768 output resolutions for great quality display on LCD/DLP projector presentations. The VGA output allows you to connect to any monitor or projector, and the DVI output can be used with higher end projectors for higher bandwidth and clearer images.

- **8x Digital Zoom and Pan**

AVerVision300's zoom and pan is so smooth that you can easily focus on any document or 3D object. When using the freeze feature, you can change the objects underneath the lens without the projected image ever changing, so your presentation is as smooth as you want it to be.

- **Built-in Light and Document Positioning Pointers**

Now you can give presentations in a darkened room. The built-in lamp lights up documents and objects near the camera and provides the necessary light for poorly lit conditions. The Document Positioning Pointers provide 4 reference points on each corner of the viewing area. Now you will automatically know exactly where to place the object for full viewing pleasure.

- **Portable Mechanical Arm Design**

Designed to be portable, AVerVision300 only weighs 3.3 lbs and folds down to 14.5" x 6.75" x 3.75". Also, the maneuverability of AVerVision300's mechanical arm is simply remarkable. Not only can the arm move up and down, but it can also move from side to side to capture anything from almost any angle.



### **Shag Starch Tan Woven Rug**

**Price: \$14.00 - \$219.99**

- Solid neutral tan matches most decor
- Soft mini-shag weave
- Durable and stain-resistant olefin
- Spot clean or professionally clean
- Smaller rugs have rubber backing; larger versions have "action back"

Sleek in its simplicity but cozy in its weave, the Shag Starch Tan Woven Rug infuses any room with instant panache. Durable, stain-resistant olefin is cottony soft, and the mini-shag of this neutral area rug makes it funky and fun. Smaller rug sizes (21x34, 21x60, 30x50) feature a washable rubber backing to keep rugs in place, while larger sizes (60x96, 96x120) boast an "action back" to help rugs lay flat. Olefin. Spot clean with mild detergent or professionally clean. Made in USA.

You may return this item to any Target store.

Catalog#: B0000C8UD6 ASIN: B0000C8UD6

#### Shipping & Delivery Information

- This item can only be shipped to the 50 states. We regret it cannot be shipped to APO/FPO, or Puerto Rico.

**Turquoise Silk 16X16" Pillow – India**

**Price: \$17.99**



- Throw pillow
- Iridescent turquoise/green cover with embroidered trim
- Silk cover with polyester pillow; spot clean
- Made in India
- 16Lx16W"

Add a pop of vibrant color to a bed, a sofa, an armchair. Covered in iridescent turquoise and green fabric, this decorative throw pillow from Global Bazaar is edged with luminous embroidery. Cover is 100% silk; pillow is polyester. Spot clean. Made in India. 16Lx16W".

This item cannot be returned to a Target store; find out how to return this item to Target.com.  
Catalog # : 573806 ASIN: B0002SC73S

Item cannot be gift wrapped.

Imported

Shipping & Delivery Information

- Estimated Ship Dimensions : 13.0 inches length x 13.0 inches width x 5.0 inches height
- Estimated Ship weight: 1.9 pounds
- This item can only be shipped to the 50 states. We regret it cannot be shipped to APO/FPO, or Puerto Rico.

### **Royal Blue Beanbag Chair**

**Price: \$19.99**



No chair begs you to flop down and take life easy like a beanbag chair. This bright blue poof of reclining pleasure is the perfect seating solution for the dorm room, family room or kids' play area. And if things get a little crazy (read: ice cream drips and spilled Coke), the 100% vinyl can look like new after a quick wipe-down with a damp cloth. 100% polyester blowfill. Imported. 20Hx31Wx31L".

You may return this item to any Target store.

Catalog # : 540669 ASIN: B0001ZZJ32

Imported

#### Shipping & Delivery Information

Standard delivery only. Flat shipping charge per item: \$13.99

Estimated Ship Dimensions : 24.0 inches length x 24.0 inches width x 18.6 inches height

Estimated Ship weight: 4.3 pounds

This item can only be shipped to the 50 states. We regret it cannot be shipped to APO/FPO, or Puerto Rico.

This item must be shipped separately from other items in your order. A separate shipping charge will also apply.



### **Mission Style Glass Torch Floor Lamp**

**Price: \$39.99**

Classic mission style

Stained glass shade

Grooved base with antiqued-brass style finish

One of the finest eras in American craftsmanship is the inspiration behind the Mission-Style Glass Torch Floor Lamp. This statuesque piece is highlighted by mottled ivory stained glass touched with amber and green designs at the border of the shade. A dark antiqued-brass style finish defines the base, which has simple grooves flaring to a square shape at the floor. Makes a classic registry or housewarming gift. Imported. 71-1/2H".

You may return this item to any Target store.

Catalog # : 526638 ASIN: B0000E63CF

Imported

#### Shipping & Delivery Information

Estimated Ship Dimensions : 16.2 inches length x 12.7 inches width x 9.2 inches height

Estimated Ship weight: 15.0 pounds

This item must be shipped separately from other items in your order. A separate shipping charge will also apply.

## **Microsuede Floor Pillow – Berry**

**Price: \$69.95**



Down-to-earth colors; top-of-the-line quality. These pillows are perfect for movies, reading, or when parties spill beyond your seating capacity. The luxurious faux-suede cover unzips for dry cleaning; 100% polyester with polyester fill insert. Generously sized at 26Lx26W"; firm 4" depth guarantees a comfortable place to sit.

This item cannot be returned to a Target store; find out how to return this item to Target.com.

- Catalog # : 695547 ASIN: B0007MZR04

Made in USA

### Shipping & Delivery Information

- Estimated Ship Dimensions : 26.0 inches length x 26.0 inches width x 13.0 inches height
- Estimated Ship weight: 9.3 pounds
- This item can only be shipped to the 50 states. We regret it cannot be shipped to APO/FPO, or Puerto Rico.
- This item must be shipped separately from other items in your order. A separate shipping charge will also apply.



### Seville Room Divider

**List price: \$440.00 to \$579.00**

**Our Price: ~~\$359.99~~ to ~~\$479.99~~**

#### **Item Details**

The Seville Room Divider has a textured background with a stylish wood design in the forefront. This screen can be used for multiple purposes and in numerous rooms in your home. The Seville Room Divider is the perfect purchase.

**Dimensions:** 58W x 72H inches

**Width (in.):** 58

**Material:** Wood



**Executive Mid Back Glove  
Vinyl Office Chair**

**List Price: \$199.00**

**Our Price: ~~\$59.99~~**

**Feature**

- Two piece glove vinyl cushion
- Passive ergonomic seating with built in lumbar support
- Upright lock
- Pneumatic seat height adjustment
- Adjustable tilt tension control

**Item Specifications:**

Back Size:	20"H
Seat Height:	17"H - 21"H
Seat Depth:	18"D
Seat Width:	18"W





[+details](#)

Tahiti - Opunohu Bay

[David Noton](#)

36 x 11.75 inches

Wall Poster

~~\$11.00~~ \$7.99

Usually ships within 24 hours



[+details](#)

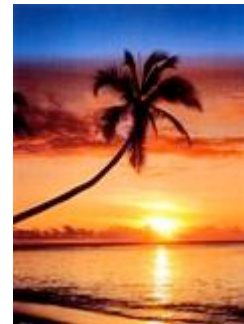
Tropical Beach

36 x 24 inches

Wall Poster

~~\$13.00~~ \$8.99

Usually ships within 24 hours



[+details](#)

Sunset & Palm Tree

25.25 x 35.5 inches

Wall Poster

~~\$11.00~~ \$8.99

Usually ships within 24 hours



[+details](#)

Seashells in the Light

[Lynn Fecteau](#)

36 x 24 inches

Fine Art Print

\$29.99

Usually ships within 24 hours



[+details](#)

Maldivian Morning

36 x 24 inches

Wall Poster

[\(other sizes available\)](#)

~~\$11.00~~ \$8.99

Usually ships within 24 hours



[+details](#)

Island Paradise - Relax

[Craig Tuttle](#)

24 x 36 inches

Wall Poster

~~\$13.00~~ \$8.99

Usually ships within 24 hours





[+details](#)

Tropical Beach

36 x 24 inches

Wall Poster

~~\$10.00~~ \$8.99

Usually ships within 24 hours



[+details](#)

Destiny

[Hugh Sitton](#)

36 x 24 inches

Wall Poster

[\(other sizes available\)](#)

~~\$11.00~~ \$8.99

Usually ships within 24 hours





**Chromcraft Racetrack Table  
Top with T-Mold Edge and  
Pedestal Desk**

**Price: \$229.98 - \$399.98**

Distinctive styling creates upscale boardroom atmosphere. Tops feature 2" thick high-pressure laminate. Tops and bases sold separately. Covered by Chromcraft's 5-year warranty.

**Isaac Mizrahi Blue  
Camellia Bolster Pillow**

**Price: \$19.99**



- 100% cotton shell
- Fun stripes in perfectly matched tones
- From the Isaac Mizrahi Blue Camellia bedding collection
- Polyester fill
- Spot clean; imported

Cool colors; comfortable textures—this decorative bolster pillow echoes all the fabulous colors from Isaac Mizrahi's Blue Camellia bedding collection. A detailed striped pattern gives your bed an extra splash of energy. Bright blue cover is 100% cotton with polyester fill. Spot clean. Imported. 8Hx18W".

You may return this item to any Target store.

Catalog # : 650440 ASIN: B00068S1HK

Imported

**Shipping & Delivery Information**

- Estimated Ship Dimensions : 21.4 inches length x 9.0 inches width x 8.3 inches height
- Estimated Ship weight: 2.0 pounds
- This item must be shipped separately from other items in your order. A separate shipping charge will also apply.



### **SIGNAMAX 4-PORT KEYSTONE SURFACE MOUNT BOX**

**PC Mall Part #:** 319399

**Mfr. Part #:** SMK-4-WH

**Price:** **\$3.63**

Signamax connectors and multimedia module inserts can be used in the Signamax Surface Mount Multimedia box, enabling the consolidation of up to 12 keystone modular connectors for surface mounting. These boxes are designed to also accommodate industry-standard surface raceways for a clean transition to the box. Individual connector ports can be color-coded using icons, and additional labeling areas are provided to the application.

Signamax Connectivity Systems designs, manufactures and markets network connectivity products including Gigabit Ethernet devices, structured cabling systems, and workstation connectivity components. Signamax Systems is a division of Advanced Electronic Support Products, Inc.

Signamax provides complete network solutions - from the server's network card to the workstation - and everything in between. We provide a seamless unified product selection for copper and fiber based network connectivity engineered for increased performance, reliability, affordability and ease of installation.

**Parts Warranty:** 5 years

**Labor Warranty:** 5 years

### **Why we chose this...**

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We selected these 4-port keystone boxes because they mount on the wall and are designed to accommodate raceway. With the use of the 4-port boxes, we can run 4 Cat5e cables down to the computer stations from the main raceway. We will be able to plug in 4 computers to each box. Buying the 4-port boxes was the same price as purchasing 2-port boxes, so we will be saving space by installing these boxes. We think that it would be a good idea for the client to purchase and pay for the installation of one or two extra boxes in each lab in the event the college wishes to expand the number of computers in each lab.



### **SIGNAMAX 2-PORT KEYSTONE SURFACE MOUNT BOX**

**PC Mall Part #:** 319398

**Mfr. Part #:** SMK-2-WH

**Price:** **\$3.63**

Signamax connectors and multimedia module inserts can be used in the Signamax Surface Mount Multimedia box, enabling the consolidation of up to 12 keystone modular connectors for surface mounting. These boxes are designed to also accommodate industry-standard surface raceways for a clean transition to the box. Individual connector ports can be color-coded using icons, and additional labeling areas are provided to the application.

Signamax Connectivity Systems designs, manufactures and markets network connectivity products including Gigabit Ethernet devices, structured cabling systems, and workstation connectivity components. Signamax Systems is a division of Advanced Electronic Support Products, Inc.

Signamax provides complete network solutions - from the server's network card to the workstation - and everything in between. We provide a seamless unified product selection for copper and fiber based network connectivity engineered for increased performance, reliability, affordability and ease of installation.

**Parts Warranty:** 5 years

**Labor Warranty:** 5 years

### **Why we chose this...**

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We selected 2-port keystone boxes to place in each of the offices. While each office is only designed to be equipped with one computer, it is likely that a faculty member may wish to bring in a second computer or connect a printer to the network. The second port in the offices will allow faculty members to add additional hardware in their offices if they wish.



### **CAT-5e RJ45 KEYSTONE JACK - RIGHT ANGLE**

**List Price: \$3.99**

**Introductory Price: \$1.99**

- 110 type IDC Termination
- Meet EIA/TIA Cat 5e Standard
- TSB 568A or 568B (AT&T 258A) UL-Listed
- 4-Layer PCB for optimal performance.
- Right Angle Type Block. Creating equal length between each wire connecting to the block.

Available in **Blue**, **Black**, **Beige**, **White**, **Yellow**, **Red**, **Orange**, **Ivory**, **Grey**

### **Why we chose this...**

---

In order to connect the computers to the keystone boxes, we need to use keystone jacks. The Cat5e cable that is connected to the patch panel at one end must be connected to the keystone jack at the other. Once installed, the Cat5e cable from the computer stations can be plugged into the jacks that are placed inside the boxes to complete a network connection. Since these jacks are sold individually, we have decided to purchase enough of each color to allow us to color code the labs.





**3/4 in. Ivory Raceway 6-ft  
(pack of 6)**

Item#: 112446

Mfr. Part#: F4D492

**Our Price: \$28.22**

**Components**

Organize your cables and tuck them safely away without having to cut drywall or drill walls. Belkin Raceways provide a quick, easy solution for running your cables.

Belkin 3/4" Raceways provide an ideal channel for running cables within your home or office. The six 6 ft. raceways are constructed of 94V-0 ridged vinyl for maximum durability. Each is hinged and features a self-locking latch, allowing you to easily store and access CAT 5, CAT 5e, and CAT 6 cables and even bend them in a 1-inch or greater radius for less cable stress. An adhesive backing provides each raceway with a simple mounting option. Just peel and stick and you're good to go.

**Product Specifications**

General Product Type - Cable raceway

Contents - (6) 6' tracks, adhesive, and documentation

Warranty: Labor - Lifetime

: Parts – Lifetime

**Why we chose this...**

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From the patch panel, the Cat5e cable will travel through the ceiling to the computer labs and offices. Once the cable reaches the rooms, it will need to be concealed as it travels along the walls to the mount boxes. The Cat5e cable will be run through the raceway that will be attached to the walls. In the 2 computer labs, we will place the raceway one above the other along the ceiling in order to accommodate the 12-14 cables that will be running from the server room along each side of the room. From these thick strips of raceway, we will run one strip of raceway down towards the floor to the keystone mount boxes. These pieces of raceway will hold 4 lengths of Cat5e cable.



### **Dura-Rite Board with Aluminum Trim**

Item#: 212AH-BR

Size: 4'x8'

**Our Price: \$163.99**

This new melamine surface is a durable, high quality melamine surface with outstanding dry - erase capabilities. Dura - Rite markerboards are dust free and provide an economical surface for safer classrooms. These boards are resistant to wear, stains, high temperatures and chemical agents of common household or office use. The markerboards have athermo fused particle board with decorative lining that is saturated with 6 layers of resin, pressed and baked, extending the life and use of the surface. Dura - Rite boards are impossible to deform and promise a 15 year Guarantee!